# STATE OF NEW HAMPSHIRE INTER-DEPARTMENT COMMUNICATION

DATE:

August 2, 2019

FROM:

SEL anbehalf of Andrew O'Sullivan

Wetlands Program Manager

AT (OFFICE):

Department of Transportation

SUBJECT

Dredge & Fill Application

Rye, 42613

Bureau of Environment

(Emergency Follow-up DES# 2019-01585)

TO

Craig Rennie, Inland Wetlands Supervisor

New Hampshire Wetlands Bureau 29 Hazen Drive, P.O. Box 95 Concord, NH 03302-0095

Forwarded herewith is the emergency follow-up application prepared by NH DOT for the subject impact project. This project is classified as Major per Env-Wt 303.02(a). The project is located on NH Route 1A (Ocean Blvd) in the Town of Rye, NH. The emergency repairs consisted of placing concrete bags into structural voids in order to stabilize the structures walls. In addition, stone rip-rap was placed around the inlet wing walls where the previous rip-rap had washed away and scour was present.

This project was not reviewed at the Natural Resource Agency Coordination Meeting due to the emergency nature of the work.

Mitigation is not anticipated because impacts were predominantly temporary and where they were permanent, it was for the replacement of stone where stone previously existed for the protection of existing infrastructure.

The lead people to contact for this project are Ralph Sanders, Highway Maintenance District 6 (868-1133 or Ralph.Sanders@dot.nh.gov) or Andrew O'Sullivan, Wetlands Program Manager, Bureau of Environment (271-3226 or Andrew.O'Sullivan@dot.nh.gov).

A payment voucher has been processed for this application (Voucher #577760) in the amount of \$234.20.

If and when this application meets with the approval of the Bureau, please send the permit directly to Andrew O'Sullivan, Wetlands Program Manager, Bureau of Environment.

AMO:mru Enclosures

cc:
BOE Original
Town of Rye (4 copies via certified mail)
David Trubey, NH Division of Historic Resources (Cultural Review Within)
Carol Henderson, NH Fish & Game (via electronic notification)
Maria Tur, US Fish & Wildlife (via electronic notification)
Mark Kern, US Environmental Protection Agency (via electronic notification)
Michael Hicks, US Army Corp of Engineers (via electronic notification)
Kevin Nyhan, BOE (via electronic notification)



# The State of New Hampshire

# **Department of Environmental Services**



## Robert R. Scott, Commissioner

## **EMERGENCY AUTHORIZATION VERIFICATION**

**FILE NUMBER:** 

2019-01585

OWNER:

NH DEPARTMENT OF TRANSPORTATION

SITE LOCATION:

NH RTE 1A, RYE; TAX MAP #ROW, LOT #ROW

AGENT/CONTRACTOR:

**NH DEPARTMENT OF TRANSPORTATION -- DISTRICT 6** 

WATERBODY:

NH ROUTE 1A (OCEAN BLVD - RYE HARBOR

This is to confirm that the New Hampshire Department of Environmental Services (NHDES) has given emergency authorization in accordance with NH Administrative Rule Env-Wt 500 to the owner/agent to conduct the following work in the NHDES Wetlands Bureau jurisdiction (under RSA 482-A):

DESCRIPTION: Emergency Authorization to temporarily stabilize a granite box culvert along NH Route 1A in Rye.

This authorization is subject to the following conditions:

- 1. The applicant/contractor shall file a follow up Standard Wetlands Application for after-the-fact impacts for the work performed under this authorization to NHDES by August 1, 2019;
- 2. Work shall be done during low tide;
- 3. Work shall be conducted in a manner so as to minimize turbidity and sedimentation to surface waters and wetlands;
- 4. Appropriate siltation, erosion controls, turbidity, and sedimentation controls shall be utilized;
- 5. Extreme precautions shall be taken within riparian areas to limit unnecessary removal of vegetation for access;
- 6. Construction equipment shall be inspected daily for leaking fuel, oil, and hydraulic fluid prior to working near surface waters or wetlands:
- 7. Faulty equipment shall be repaired prior to working near jurisdictional areas;
- 8. The contractor shall have appropriate oil spill kits on site and readily accessible at all times during construction and each operator shall be trained in its use;
- 9. This form shall be properly posted at the work site;
- 10. This authorization does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others.

**THIS AUTHORIZATION EXPIRES ON July 1, 2019**. All work must be completed by this date. This authorization has been given file number **2019-01585**. Please use this number in all future correspondence. This form is valid only if signed below by the NHDES Wetlands Bureau Administrator or his designee.

Date:

May 30, 2019

Signed:

Collis G. Adams, CWS, CPESC Wetlands Bureau Administrator Land Resources Management

ag Adam

cc:

Rye Municipal Clerk/Conservation Commission

US Army Corps of Engineers; NH Homeland Security and Emergency Management



# WETLANDS PERMIT APPLICATION

# **Water Division/ Wetlands Bureau**





RSA/Rule: RSA 482-A/ Env-Wt 100-900

			Process of	File No.:	
Administrative	Administrative		Administrative	Check No.:	
Use Only	Uso Galy	- bymsamon	Use Cody	Amount: 0 < 10 = W	IN THE
				Initials	
1. REVIEW TIME: Indicate your Review T	ime below. To determine review t	ime, refer to Guid	lance Document	A for instructions	
Standard Review (Minimum,				ew (Minimum Impact only	)
2. MITIGATION REQUIREMENT:  If mitigation is required, a Mitigation-Pre mitigation is required, please refer to the	Application meeting must occur p	rior to submitting	this Wetlands Pe	ermit Application. To deter	rmine if
Mitigation Pre-Application Meeting  N/A - Mitigation is not required		r:			
3. PROJECT LOCATION: Separate wetland permit applications mu	st be submitted for each municipa	lity within which	wetland impacts	occur.	
ADDRESS: NH Route 1A (Ocean Blvd)			т	OWN/CITY: <b>Rye</b>	
TAX MAP: N/A	BLOCK: N/A	LOT: N	/A	UNIT: N/A	·
USGS TOPO MAP WATERBODY NAME: Unnar	mmed	⊠ NA	STREAM WATERS	HED SIZE: <b>1.2 sq mi.</b>	□ NA
LOCATION COORDINATES (If known): -70.750	66 42.9973	-	☐ Latitude/Longitude ☐ UTM ☐ State Plane		
Emergency Repairs were completed Block Box structure under NH Route sides of the structure the predomina of placing concrete bags into the voice	1A was severly compromised on twoids were along the south	due to missing pern abutment.	granit blocks. W Repairs comple	Vhile blocks were missing ted under the emergen	ng on both
5. SHORELINE FRONTAGE:				usale it ili sus	
N/A This does not have shoreline from	ntage. SHORELINE F	RONTAGE: 25			
Shoreline Frontage is calculated by determ drawn between the property lines, both o	nining the average of the distances f which are measured at the norm	of the actual nat al high water line	ural navigable sho (Env-Wt 101.89)	oreline frontage and a stra	aight line
<ol> <li>RELATED NHDES LAND RESOURCES MAPPlease indicate if any of the following perr</li> <li>determine if other Land Resources Mar</li> </ol>	nit applications are required and, i	if required, the st	atus of the applic	ation.	
Permit Type	Permit Required	File Numbe	r Permit A	pplication Status	
Alteration of Terrain Permit Per RSA 485-A ndividual Sewerage Disposal per RSA 485- Subdivision Approval Per RSA 485-A Shoreland Permit Per RSA 483-B			APPR	ROVED PENDING 1	DENIED DENIED DENIED DENIED
7. NATURAL HERITAGE BUREAU & DESIGNO CONTROL OF THE INSTRUCTIONS & REQUIRED Attachme		omplete a & b be	low.		
a. Natural Heritage Bureau File ID: NHB	<u> 19 - 2422 .</u>		is .		
o. This project is within a <u>Designated</u> date a copy of the application was	River corridor. The project is withing sent to the Local River Management of the River Corridor.	n ¼ mile of: ent Advisory Com	mittee: Month:	; and Day: Year:	

8. APPLICANT INFORMATION (Desired permit holder)							
LAST NAME, FIRST NAME, M.I.: Brian Schutt							
TRUST / COMPANY NAME: NHDOT MAILING ADDI			DRESS: PO BO	PRESS: PO BOX 483			
TOWN/CITY: Concord				STATE: NH	ZIP CODE: <b>03301</b>		
EMAIL or FAX: Brian.Schutt@dot.nh.gov		PHONE:	603-868-11	33			
ELECTRONIC COMMUNICATION: By initialing here: <b>BS</b> , I hereby aut	horize NHDES to	communicat	e all matters rel	ative to this appli	cation electronically.		
9. PROPERTY OWNER INFORMATION (If different than applied)	cant)						
LAST NAME, FIRST NAME, M.I.: NHDOT		11					
TRUST / COMPANY NAME: NHDOT		MAILING ADI	ORESS: PO BO	X 483			
TOWN/CITY: Concord				STATE: NH	ZIP CODE: <b>03301</b>		
EMAIL or FAX: Bureau16@dot.nh.gov			PHONE: (603	3) 271-3226			
ELECTRONIC COMMUNICATION: By initialing here MRU, I hereby a	uthorize NHDES	to communic	cate all matters	relative to this ap	plication electronically.		
10. AUTHORIZED AGENT INFORMATION							
LAST NAME, FIRST NAME, M.I.:			COMPANY NA	ME:			
MAILING ADDRESS:							
TOWN/CITY:				STATE:	ZIP CODE:		
EMAIL or FAX:	=	PHONE:					
ELECTRONIC COMMUNICATION: By initialing here, I hereby	authorize NHDES	to commun	icate all matters	relative to this a	pplication electronically.		
11. PROPERTY OWNER SIGNATURE: See the Instructions & Required Attachments document for cla	arification of th	e helow stat	tements				
By signing the application, I am certifying that:		0.001011 010					
<ol> <li>I authorize the applicant and/or agent indicated on this request, supplemental information in support of this per</li> </ol>	ermit application	on.					
<ol> <li>I have reviewed and submitted information &amp; attachments outlined in the <u>Instructions and Required Attachment</u> document.</li> <li>All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.</li> </ol>							
<ol> <li>All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.</li> <li>I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.</li> </ol>							
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.							
<ol> <li>Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.</li> </ol>							
<ol> <li>I have submitted a Request for Project Review (RPR) Form (<u>www.nh.gov/nhdhr/review</u>) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/archeological resources while coordinating with the lead federal</li> </ol>							
agency for National Historic Preservation Act (NHPA) 106 compliance.							
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.							
9. I have reviewed the information being submitted and the		•	_				
<ol> <li>I understand that the willful submission of falsified or misrepresented information to the NHDES is a criminal act, which may result in legal action.</li> </ol>							
<ul><li>11. I am aware that the work I am proposing may require at</li><li>12. The mailing addresses I have provided are up to date ar</li></ul>							
12. The maying addresses I have provided are up to date an				espondence. N	7. /.		
	Rian Print name legi	T. S.	. hott	8	11/249		
Property Owner Signature	Print name legi	bly		Da	te		

#### **MUNICIPAL SIGNATURES**

#### 12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

- 1. Waives its right to intervene per RSA 482-A:11;
- 2. Believes that the application and submitted plans accurately represent the proposed project; and
- 3. Has no objection to permitting the proposed work.

Print name legibly

Date

#### DIRECTIONS FOR CONSERVATION COMMISSION

- 1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
- 2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
- 3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will be reviewed in the standard review time frame.

### 13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.



Print name legibly

Town/City

Date

## **DIRECTIONS FOR TOWN/CITY CLERK:**

Per RSA 482-A:3,I

- 1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
- 2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
- 3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
- 4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
- 5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

### **DIRECTIONS FOR APPLICANT:**

 Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

### 14. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact.

Permanent: impacts that will remain after the project is complete.

<u>Temporary</u>: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

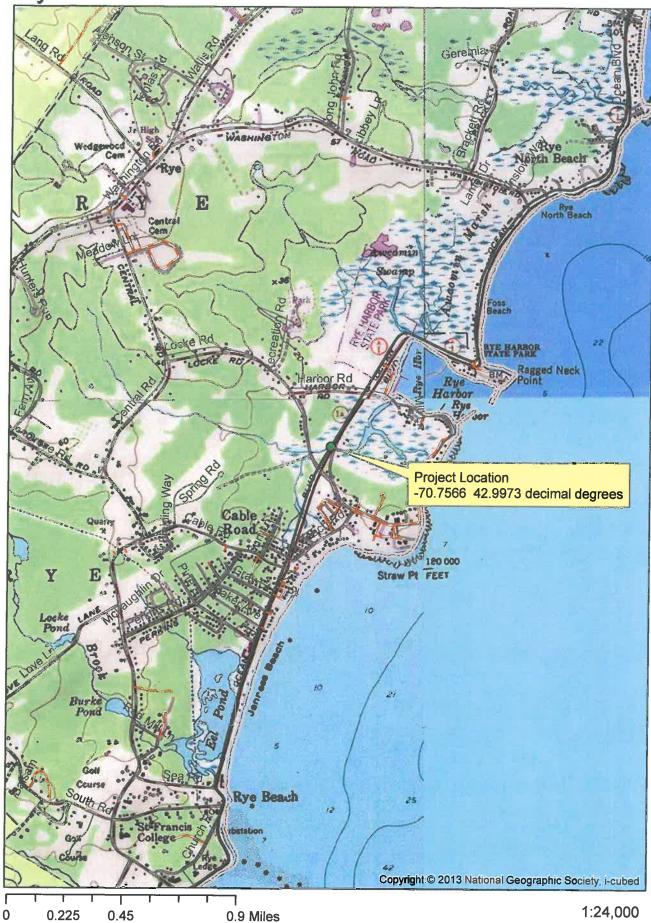
Intermittent Streams: linear footage distance of disturbance is measured along the thread of the channel.

<u>Perennial Streams/ Rivers</u>: the total linear footage distance is calculated by summing the lengths of disturbance to the channel and each bank.

reterminal streams, the total linear jobtage distance is calculated by summing the lengths of distarbance to the channel and each bank.							
JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.				
Forested wetland		ATF	***	ATF			
Scrub-shrub wetland		ATF		ATF			
Emergent wetland		ATF		ATF			
Wet meadow		ATF		ATF			
Intermittent stream channel	/	ATF	1.	ATF			
Perennial Stream / River channel	/	ATF	/	ATF			
Lake / Pond	/	ATF	1	ATF			
Bank - Intermittent stream	1	ATF	1	ATF			
Bank - Perennial stream / River	/	ATF	1	ATF			
Bank - Lake / Pond	/	ATF	1	ATF			
Tidal water	65 / 12	ATF	569 / 175	ATF			
Salt marsh		ATF		ATF			
Sand dune		ATF		ATF			
Prime wetland		ATF		ATF			
Prime wetland buffer		ATF		ATF			
Undeveloped Tidal Buffer Zone (TBZ)		ATF		ATF			
Previously-developed upland in TBZ	0	ATF	537	ATF			
Docking - Lake / Pond		ATF		ATF			
Docking - River		ATF		ATF			
Docking - Tidal Water		ATF		ATF			
Vernal Pool		ATF		ATF			
TOTAL	65 / 12		1106 / 175				
15. APPLICATION FEE: See the Instruc	tions & Required Attachments docume	ent for further inst	ruction				
Minimum Impact Fee: Flat fee of							
Minor or Major Impact Fee: Calcu							
Permar	nent and Temporary (non-docking)	<b>1171</b> sq.	ft. X \$0.20 = \$234.20	<del></del>			
Tempo	orary (seasonal) docking structure:	sq.	ft. X \$1.00 = \$	<del></del> -			
	Permanent docking structure:	sq.	ft. X \$2.00 = \$				
	Projects proposing shoreline str	ructures (including	g docks) add \$200 =\$	<del>-</del>			
			Total = \$ 234.20	=			
The A	Application Fee is the above calculated	d Total or \$200, wl	hichever is greater = \$234.20				

Rye 42613





Rye 42613







# WETLANDS PERMIT APPLICATION – ATTACHMENT A MINOR AND MAJOR - 20 QUESTIONS

# Land Resources Management Wetlands Bureau

Check the Status of your application: <a href="www.des.nh.gov/onestop">www.des.nh.gov/onestop</a>



RSA/ Rule: RSA 482-A, Env-Wt 100-900

<u>Env-Wt 302.04 Requirements for Application Evaluation</u> - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:

The need for the proposed impact.

In late May NHDOT discovered that the Granite Block structure located under NH Route 1A (Ocean Blvd) was severly compromised. Several of the large granite blocks along the length of the structure were missing whereby resulting in large voids compromising the structural integrity of the structure that could have resulted in the road collapsing. NHDOT requested an Emergency Authorization (EA) from Environmental Services to temporarily stabilize the structure. See NHDES EA 2019-01585. The work completed during the emegency authorization consisted of placing several concrete bags into the structure where granite block voids existed. The concrete bags were able to provide the structural integrity needed to stabilize the structure. In addition to the concrete bags there was approximatly 65 sq ft of rip-rap placed where rip-rap previously had existed on the inlet side of the structure to fill the scour holes around the structures wings.

This application is representative of the as built conditions for the work completed under the emergency authorization.

The Department anticipates working with the Nature Conservancy to follow-up in another year or two with a proposed complete replacement of the structure once we have had a time to work through the Design and Coordination of that replacement.

2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

The Department considered several alternatives for the proposed emergency repairs to temporarily stabilize the structure.

- 1) A do nothing alternative was quickly dismissed due to the high traffic volume that would be disrupted if the road were indeffinately closed.
- 2) The Department considered a cast in place concrete form. However, the design constraints, and cost of this alternative were influencing factors that detered the Department from this alternative at this time.
- 3) Replacement in Kind was considered but was considered too costly knowing that there was a preference to upsize the structure in the future.
- 4) A Permanent Upsized Replacement was not persued because the DES emergency authorization process limits the Department to Temporary Stabilization of the immenant threat.
- 5) The selected alternative was the installation of concrete bags, stuffed into the voids to form a makeshift concrete reinforcement within the structure. This was prefered because of the low cost, low impact to the environment, and its ease of installation which was important when having the time the work between tide cycles. This rehabilitation effort will keep the crossing in service until a fully designed full replacement can occur.

3. The type and classification of the wetlands involved.
E1UB1,2
E2US1
E2EM2
TBZ
4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.
The majority of impacts were temporary to facilitate the foot traffic of the maintence crews while they installed the concrete bags.
The impacts occurred on an unnamed stream that see intertidal flow in and out of the structure.
5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.
The wetlands impacted are within the previously developed tidal buffer zone. The E2EM2 wetlands are not rare.
6. The surface area of the wetlands that will be impacted.
Impacts consisted of 65 Sq ft of Permanent Impact associated with the replacement of rip-rap where rip-rap previously existed.
There were 1106 sq ft of temporary impacts to facilitate the foot traffic required to allow the maintenance crews to install the concrete bags that when placed have essentially no impacts because they are filling the structural voids where the granit blocks
had been displaced.

7. The impact on plants, fish and wildlife including, but not limited to:
a. Rare, special concern species;
b. State and federally listed threatened and endangered species;
c. Species at the extremities of their ranges;
d. Migratory fish and wildlife;
e. Exemplary natural communities identified by the DRED-NHB; and
f. Vernal pools.
a &b. The NHB search determined that althought there was an NHB record present in the vicinity, that they did not expect that it would be impact by the work proposed/completed.
The results of the IPaC have identified the Northern Long Eared Bat (NLEB) and the Red Knot. The Department has completed the 4 (d) consultation directly through the IPaC website. There was no tree cutting required for the emergency repairs. As for the Red Knot, the Department has made a determination of no effect for this species based on the proposed work.
c. No species were identified as being at the extremities of their ranges.
d. The proposed work will not/did not have an effect on any migratory fish or wildlife. The work was able to be completed without the need of a stream diversion.
e. No exemplary or natural communities were identified by NHB.
f. There were no vernal pools identified at this location.
3. The impact of the proposed project on public commerce, navigation and recreation.
Floring and an automorphism have /had no impost on the multi
The proposed emergency repairs have/had no impact on the public commerce, navigation or recreation. This repair was nessecary to avoid impacting the listed areas of interest. Had the Department not addressed the immeadiate threat the Department may have had to shut down the road during peak tourism months whereby disrupting navigation and commerce. The emergency repairs have allowed the road to remain open.
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10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.
The propsoed emergency repairs have not altered or obstructed any public rights of passage or access.
11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.
All impacts completed under this emergency authorization were located within the Departments Right of Way (ROW) and therefore there were not impacts to abutting property owners. Additionaly, the proposed repairs did not change the characteristics of the structure or stream flow that would result in damage upstream or downstream of the work.
12. The benefit of a project to the health, safety, and well being of the general public.
The emergency repairs have ensured that NH Route 1A is and will continue to be a safe road to travel. To do nothing would have been a safety concern.
2

13. The impact of a proposed project on quantity or quality of surface and ground water. For example, where an applicant proposes to fill wetlands the applicant shall be required to document the impact of the proposed fill on the amount of drainage entering the site versus the amount of drainage exiting the site and the difference in the quality of water entering and exiting the site.
The emergecny repairs have not changed the quantity or quality of the surface/groundwater. The concrete bags were placed in such a manner to avoid diminishing the hydraulic capacity of the structure. The concrete bags were prewetted to reduce the possibility of a concrete plume, the bags were fully curred after a few tide cycles.
14. The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.
The emergency repairs were placed within the existing footprint of the compromised structure whereby matching the façade of the structure so that there would be no hydraulic deminishment that may result in flooding, erosion or sedimentation.
15. The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.
The emergency repairs were placed within the existing footprint of the compromised structure whereby matching the façade of the structure so that there would be no change to the way the water reflects or redirects coming through the structure.

16.	The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted.				
The in t	The emergencies repairs are transportation specific and it's unlikely that abutting property owners would be proposing any similar in the impacted area.				
	¥				
17.	The impact of the proposed project on the values and functions of the total wetland or wetland complex.				
und	emergency repairs have not and will not alter the functions or values of the tidal wetland complex. While the structure may be ersized the Department will be evaluating a proposed replacement as a future project. The emergency repairs have not niged the function or values.				

18	. The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.
N/A	
19	The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness
10.	areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.
N/A	
20	
	The degree to which a project redirects water from one watershed to another.  emegency repairs have not redirected water from one watershed to another.
1110	emegency repairs have not real rected water from one watershed to another.
	× ×

Additional comments	 	н жи
none		
a a		
		fa.

## Rye, 42613

# **Mitigation Narrative**

In late May the New Hampshire Department of Transportation(NHDOT) became aware that the Granite Block structure located under NH Route 1A (Ocean Blvd) in Rye, NH was severely compromised. Several of the Granite Blocks had become dislodged and were taken out to sea with the tides. This resulted in structural instability of the box culvert. As such the NHDOT requested an emergency authorization from NHDES to stabilize the immediate threat that could have resulted in the structure collapsing and loss of road. NHDES issued the emergency authorization (DES#2019-01585). The work consisted of placing concrete bags into the voids in order to stabilize the structures walls. In addition, stone rip-rap was placed behind the inlet wing walls where the previous rip-rap had washed away and scour was present. The impacts to facilitate the installation of concrete bags were all temporary for the ability to allow foot traffic down and into the structure. The bags were placed in voids in the wall and not on the channel bottom for this reason no permanent impacts were needed for the concrete bag work. As for the rip-rap that was placed at the inlet of the structure the stone that was placed was replacing stone that previously existed and was intended to protect the existing infrastructure. Therefore, no mitigation is proposed as part of this emergency follow-up application package.

# **StreamStats Report**

Region ID:

NH

Workspace ID:

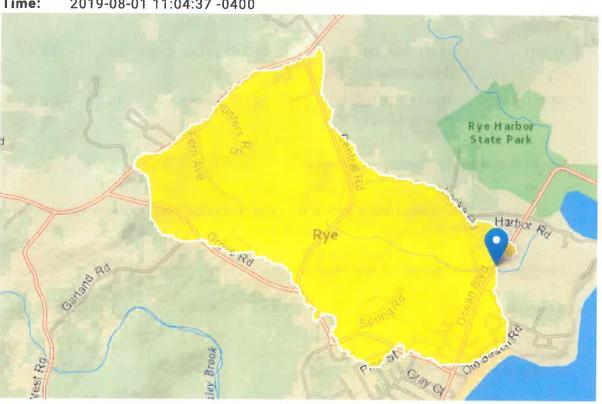
NH20190801150422258000

Clicked Point (Latitude, Longitude):

42.99732, -70.75666

Time:

2019-08-01 11:04:37 -0400



Tidal Crossing - Rye Emergency Repairs

## **Basin Characteristics**

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.21	square miles
TEMP	Mean Annual Temperature	46.381	degrees F
PREG_06_10	Mean precipitation at gaging station location for June to October summer period	17.2	inches

### Low-Flow Statistics Parameters[Low Flow Statewide]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.21	square miles	3.26	689
TEMP	Mean Annual Temperature	46.381	degrees F	36	48.7
PREG_06_10	Jun to Oct Gage Precipitation	17.2	inches	16.5	23.1

Low-Flow Statistics Disclaimers[Low Flow Statewide]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

### Low-Flow Statistics Flow Report[Low Flow Statewide]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0324	ft^3/s
7 Day 10 Year Low Flow	0.00829	ft^3/ <b>s</b>

### Low-Flow Statistics Citations

Flynn, R.H. and Tasker, G.D.,2002, Development of Regression Equations to Estimate Flow Durations and Low-Flow-Frequency Statistics in New Hampshire Streams: U.S.Geological Survey Scientific Investigations Report 02-4298, 66 p. (http://pubs.water.usgs.gov/wrir02-4298)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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Application Version: 4.3.8

# **Tidal Crossing Summary Sheet**

New Hampshire's Tidal Crossing Assessment Protocol

Crossing ID: 46

Observer(s) & 
Organization: JB TS KL (NHDES Coastal)

Municipality: RYE

Stream Name: N/A

Road Name: Ocean Blvd

Date:	: 5/25/2018		
Start Time:		1:30:00	PM
End Time:	4:30:00 AM		
Tide Prediction	والجال	High	Low
Т	ime:	9:35 AM	2:47 AM
Eleva	tion:	8.7	0.3
Tide Chart Location:		Portsmou	th Harbor

Crossing Condition Evaluation	Score
Crossing Condition	4
Tidal Restriction Evaluation	
Tidal Range Ratio	1
Crossing Ratio	4
Erosion Classification	4
Tidal Restriction Overall Score	3
Tidal Aquatic Organism Passage	
Tidal Range Ratio	1
Salt Marsh Migration Evaluation	
Salt Marsh Migration Potential (Eval. Unit)	1
Salt Marsh Migration Potential (Wshed.)	5
Vegetation Evaluation	
Vegetation Comparison Matrix	3
Infrastructure Risk Evaluation	
Inundation Risk to the Roadway (US, DS)	2,2
Inun. Risk to the Crossing Structure (US, DS)	4,3
Adverse Impacts Evaluation**	
Inundation Risk to Low-Lying Development	1
Overall Scores	
Infrastructure	4
Ecological	3
Combined	3





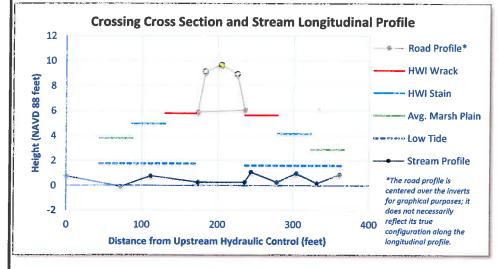
US view toward structure

DS view above structure



\* Scoring system ranges from 1 to 5, where 1 = lowest replacement priority and 5 = highest replacement priority

\*\*Adverse Impacts Evaluation scores range from 1 to 5, where 1 = high risk and 5 = low risk



	6.		
Dist.	Hght.	Feat.	Sub.
0	0.76	HC	C/S
72	-0.09	Р	C/S
112	0.76	HC	S
174	0.26	- 1	G
236	0.26	1	G
244	1.06	GC	С
278	0.26	Р	G
304	0.96	HC	G
331	0.19	P	G
361	0.86	HC	G

Long. Profile

## **Crossing Context:**

One of two crossings of Rye Harbor Marsh as it passes across Route 1A from east to west, this branch conducts the tide to the Locke Road area through an old granite structure capped by concrete. The unfavorable crossing ratio and high erosion indicators lead to a moderate priority for replacement, with an overall combined score of 3. Tidal restriction here influences three more crossings upstream that limit flow to a significant marsh area.



### Structure Characteristics:

Structure Type:	Bridge with Abutments	Date of Last	
Structure Material:	Stone	Known	N/A
Tide Gate Present:	No	Replacement:	

Crossing Dimensions (ft):	<u>Upst</u>	ream	<u>Downstream</u>
Dimension A (width):	3	.9	4
Dimension B <sup>CB</sup> (height):	5.	35	5.9
Crossing Length (Invert to Invert):		62	

ssing dition:	Headwall Material	Headwall Condition	Wingwall Material	Wingwall Condition	Scour at Structure	Scour Severity
Upstream	Concrete	Good	Masonry	Good	Wingwalls	Medium
Downstrea <b>m</b>	Concrete	Good	Masonry	Poor	Wingwalls	Medium

Scour in Structure	Scour Severity in Structure	Road Surface Condition	Utilities at Crossing	Structure Condition Overall
None	None	Good	Ohe US	Poor

<b>Structure Condition</b>	20 in the continuous of management collings in atmost was
Comments:	20 inch section of masonry collapse in structure

Ecologi	ical Assessment:		<u>Upstream</u>	Downstream	
Na	ntural Community Classification:		High Salt Marsh	Low Salt Marsh	
Up	ostream Salt Marsh Migration Potent	ial (acres):	36.40		

# Flood Hazard & Emergency Access

Site Identified in Hazard Mitigation Plan:	Yes
<b>Emergency Access or Evacuation Route:</b>	Yes
History of Flooding:	higher tides flood US Marsh. 6" harbor rd 1/4/18



# NEW HAMPSHIRE NATURAL HERITAGE BUREAU NHB DATACHECK RESULTS LETTER

To:

Matt Urban, NH Department of Transportation

7 Hazen Dr.

Concord, NH 03301

From:

NH Natural Heritage Bureau

Date:

8/1/2019 (valid for one year from this date)

Re:

Review by NH Natural Heritage Bureau of request submitted 7/31/2019

NHB File ID: NHB19-2422

**Applicant:** NHDOT

Location: Rye

NH Route 1A

**Project** 

Description: Work was completed under an Emergency Authorization. Consisted

of placing concrete bags in the voids of granite block box structure.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 7/31/2019, and cannot be used for any other project.



# NEW HAMPSHIRE NATURAL HERITAGE BUREAU NHB DATACHECK RESULTS LETTER

# MAP OF PROJECT BOUNDARIES FOR: NHB19-2422

# NHB19-2422





# United States Department of the Interior

### FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

http://www.fws.gov/newengland



July 31, 2019

In Reply Refer To:

Consultation Code: 05E1NE00-2019-SLI-2442

Event Code: 05E1NE00-2019-E-06319

Project Name: Rye

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

## To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

## Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

# **Project Summary**

Consultation Code: 05E1NE00-2019-SLI-2442

**Event Code:** 

05E1NE00-2019-E-06319

Project Name:

Rye

Project Type:

**TRANSPORTATION** 

Project Description: Emergency Repairs - Filled voids located within granite block box

structure with concrete bags.

# **Project Location:**

Approximate location of the project can be viewed in Google Maps: https:// www.google.com/maps/place/42.99730873624N70.75666826954478W



Counties: Rockingham, NH

# **Endangered Species Act Species**

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

# **Mammals**

NAME

STATUS
Threatened

Threatened

Northern Long-eared Bat *Myotis septentrionalis*No critical habitat has been designated for this species.
Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

## **Birds**

NAME

Red Knot Calidris canutus rufa
No critical habitat has been designated for this specie

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>

# **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# United States Department of the Interior

### FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

http://www.fws.gov/newengland

CENTA WILLIAM ATE

IPaC Record Locator: 001-17687482

July 31, 2019

Subject: Consistency letter for the 'Rye' project indicating that any take of the northern longeared bat that may occur as a result of the Action is not prohibited under the ESA

Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

### Dear Matt Uraban:

The U.S. Fish and Wildlife Service (Service) received on July 31, 2019 your effects determination for the 'Rye' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take" of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species that also may occur in your Action area:

• Red Knot, Calidris canutus rufa (Threatened)

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

[1] Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

## **Action Description**

You provided to IPaC the following name and description for the subject Action.

#### 1. Name

Rye

## 2. Description

The following description was provided for the project 'Rye':

Emergency Repairs - Filled voids located within granite block box structure with concrete bags.

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/42.99730873624N70.75666826954478W">https://www.google.com/maps/place/42.99730873624N70.75666826954478W</a>



### **Determination Key Result**

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule
This key was last updated in IPaC on May 15, 2017. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

# **Determination Key Result**

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

# **Qualification Interview**

- 1. Is the action authorized, funded, or being carried out by a Federal agency? *No*
- 2. Will your activity purposefully **Take** northern long-eared bats? *No*
- 3. Is the project action area located wholly outside the White-nose Syndrome Zone?

  Automatically answered

  No
- 4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases is available at <a href="https://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html">www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html</a>.

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

6. Will the action involve Tree Removal?

No

# **Project Questionnaire**

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion: 2. If known, estimated acres of forest conversion from April 1 to October 31 0 3. If known, estimated acres of forest conversion from June 1 to July 31 0 If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6. 4. Estimated total acres of timber harvest 0 5. If known, estimated acres of timber harvest from April 1 to October 31 0 6. If known, estimated acres of timber harvest from June 1 to July 31 0 If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9. 7. Estimated total acres of prescribed fire 8. If known, estimated acres of prescribed fire from April 1 to October 31 0 9. If known, estimated acres of prescribed fire from June 1 to July 31 0

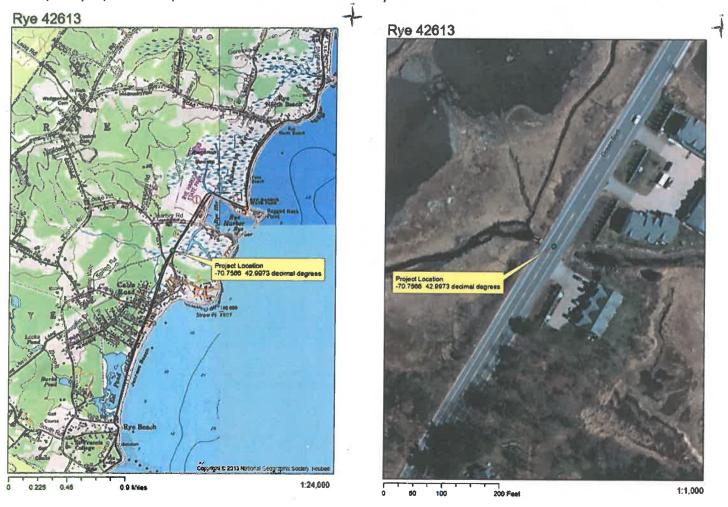
If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

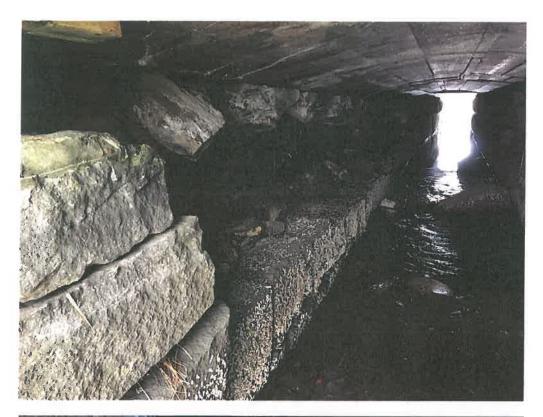
10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

For the purpose of compliance with regulations of the National Historic Preservation Act, the Advisory Council on Historic Preservation's *Procedures* for the Protection of Historic Properties (36 CFR 800), the US Army Corps of Engineers' Appendix C, and/or state regulation RSA 227-C:9, Directive for Cooperation in the Protection of Historic Resources, the NHDOT Cultural Resources Program has reviewed the proposed project for potential impacts to historic properties.

Proposed Project: This cultural review represents an after the fact Emergency Repair corrective action.

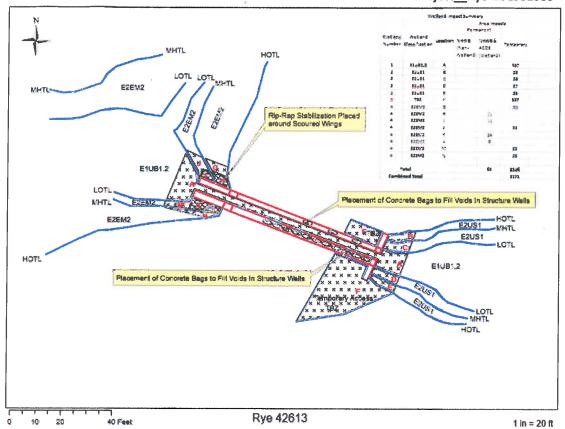
In late May early June the Department completed emergency repairs to a granite block box structure located on NH Route 1A in Rye. It was discovered that several of the granite blocks were missing and the large voids along the structures length were of major concern. The proposed temporary solution consisted of placing several concrete bags into the voids forming a makeshift concrete wall. (See attached before and after photos.) There are plans in the works to completely replace and upsize this structure in the next few years.







 $S:\Environment\PROJECTS\RYE\201901585\Cultural\Rye-NH\ RT1A\ granite\ box\ culvert\ Emergency\ Repair\ after\ the\ fact\ Cultural\ Review\ 8.1.2019.docx$ 



#### **Above Ground Review**

Known/approximate age of structure:

A culvert header block has a stamped '88' indicating the culvert was constructed in 1988.

EMMIT review on 8.1.2109 indicated there are no cultural resources in the project APE. Furthermore, the project area lies outside of and north of the Rye Abenaqui Country Club Historic District (RYE-ABCC), which was determine not eligible for the NR (2003).

☑ No Potential to Cause Effect/No Concerns

If this were a federal project, the actions would comply with the Section 106 Programmatic Agreement Appendix B - Activities with minimal potential to cause effects under:

- 9. Non-historic bridge and culvert maintenance, renovation, or total replacement, that may require minor additional right-of-way or easement, including:
  - a. Replacement or maintenance of non-historic bridges.
  - b. Installation of vandal fencing, vandal protection lighting and/or cameras, suicide fencing, and/or suicide netting.
  - c. Bridge painting.

☐ Concerns:	 	

Project\_\_Rye 201901585 - NH RT 1 Emergency Repair **Below Ground Review** Recorded Archaeological site: ☐Yes ⊠No Nearest Recorded Archaeological Site Name & Number: 27-RK-0123 Knowles Mill Site □ Pre-Contact □ Post-Contact Distance from Project Area: 1.48 miles (2.38 km) west of project area ☑ No Potential to Cause Effect/No Concerns The current actions have no potential to cause effects to archaeological resources. In the future, a review of archaeological sensitivity may need to be undertaken again depending on the proposed design for upsizing, aligning and replacing the culvert. ☐ Concerns: Reviewed by: Spice Charles 8/1/2019

Date:

**NHDOT Cultural Resources Staff** 



## US Army Corps of Engineers №

New England District

# New Hampshire General Permits (GPs) Appendix B - Corps Secondary Impacts Checklist (for inland wetland/waterway fill projects in New Hampshire)

- 1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
- 2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
- 3. See GC 5, regarding single and complete projects.

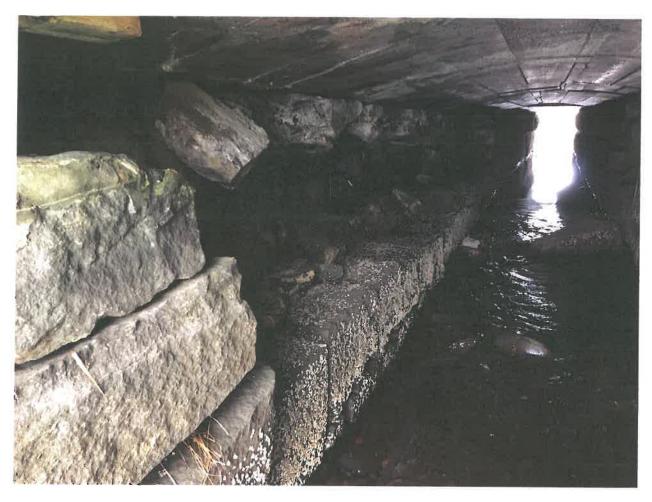
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See <a href="http://des.nh.gov/organization/divisions/water/wmb/section401/impaired waters.htm">http://des.nh.gov/organization/divisions/water/wmb/section401/impaired waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*		
2. Wetlands		
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	Yes	No
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> . The book <a href="https://www2.des.state.nh.us/nhb_datacheck/">Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.</a>		
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	<b>✓</b>	· · · · · · · · · · · · · · · · · · ·
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		1
2.5 The overall project site is more than 40 acres?		1
2.6 What is the area of the previously filled wetlands?	NIA	
2.7 What is the area of the proposed fill in wetlands?		a ft.
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?		1
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <a href="https://www2.des.state.nh.us/nhb">https://www2.des.state.nh.us/nhb</a> datacheck/USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a>	1	

3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or		
"Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green,		
respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological		
Condition.") Map information can be found at:		
• PDF: www.wildlife.state.nh.us/Wildlife/Wildlife Plan/highest ranking habitat.htm.	,	1
Data Mapper: www.granit.unh.edu.	1	
GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		ŀ
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland,		1
wetland/waterway) on the entire project site and/or on an adjoining property(s)?		\
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or		/
industrial development?		<b>V</b>
3.5 Are stream crossings designed in accordance with the GC 21?	1	
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		<b>\</b>
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of		
flood storage?		NA
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR)		<b>†</b>
Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division		NIA
of Historical Resources as required on Page 11 GC 8(d) of the GP document**		
	4	

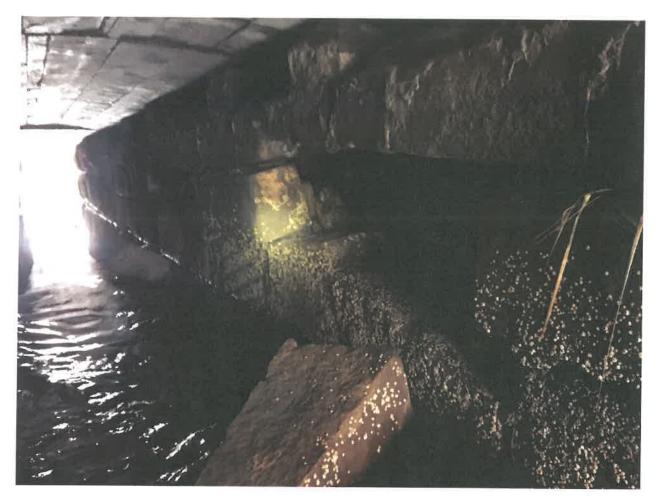
<sup>\*</sup>Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

\*\* If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

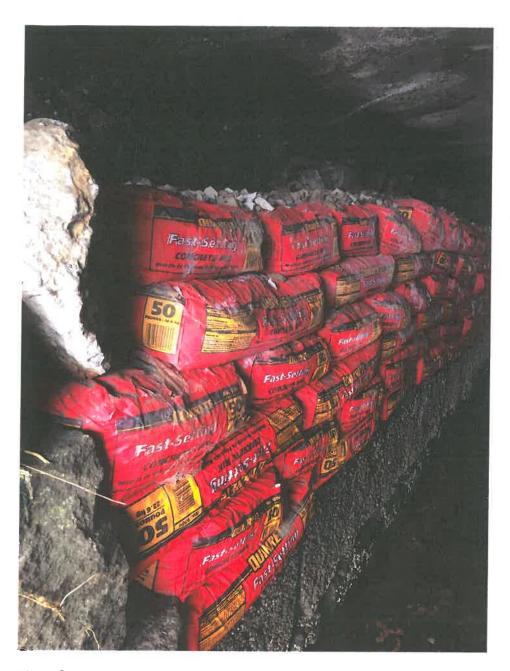


View inside of structure showing loss of granite blocks. (Pre-Emergency)

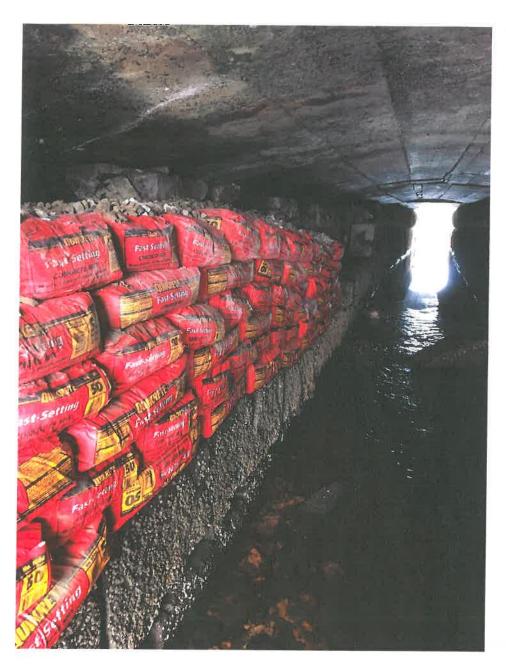
5/30/2019



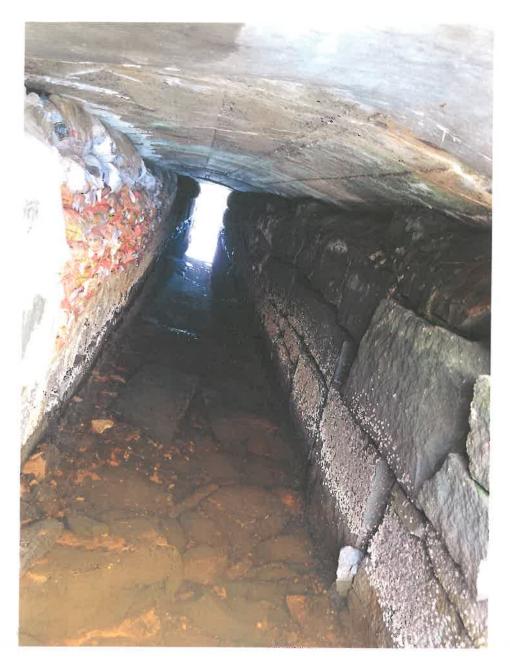
Example photo of how other side of wall only had a few missing blocks (Pre-Emergency) 5/30/2019



View of emergency repairs  $-\frac{3}{4}$  completion of concrete bag installation.  $\frac{6}{18}/\frac{2019}{18}$ 

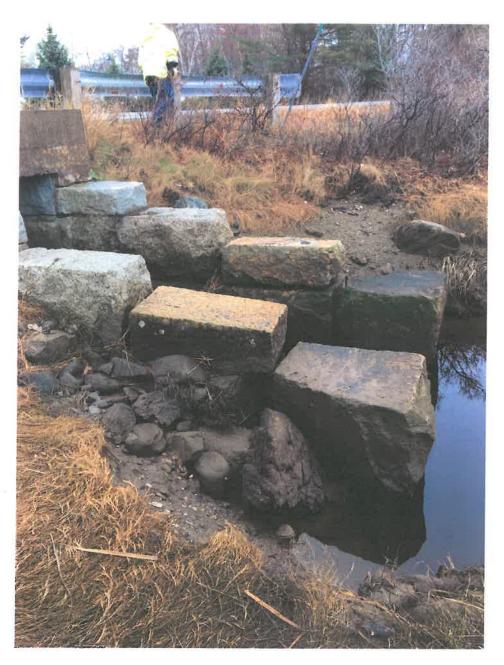


View of emergency repairs –  $\frac{3}{4}$  completion of concrete bag installation. 6/18/2019

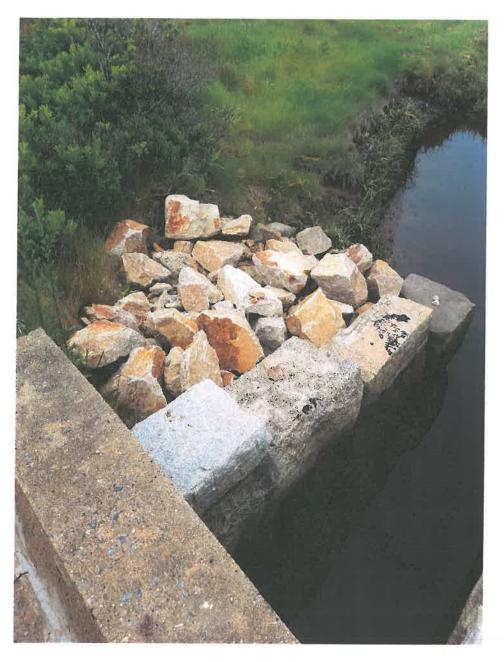


View of completed work (post photo)

7/11/2019

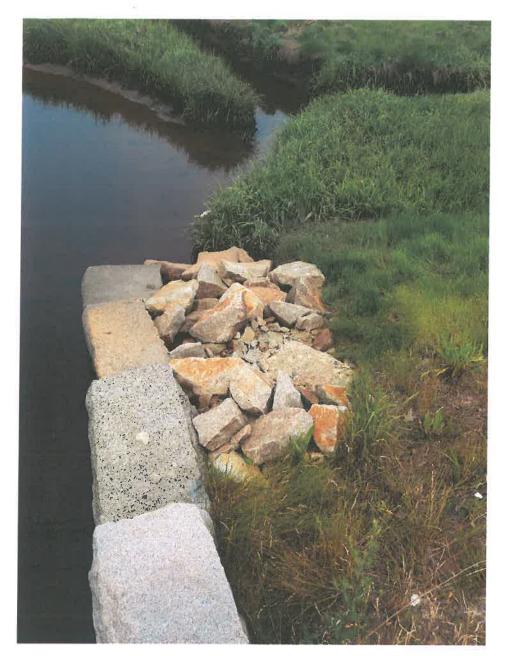


View of Scour around inlet wings \*signs of some old rip-rap remain (Pre-Emergency) 5/30/2019



Photos of rip-rap that was replaces at inlet (Post Photo)

7/11/2019



Photos of rip-rap that was replaces at inlet (Post Photo)

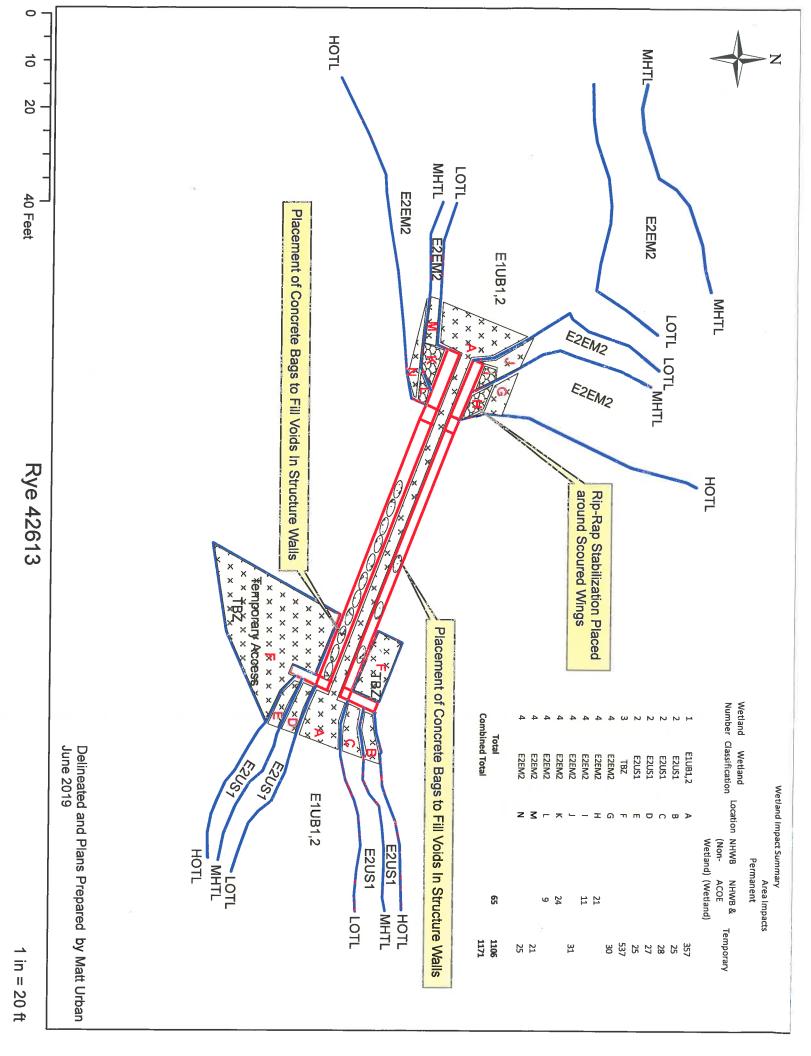
7/11/2019

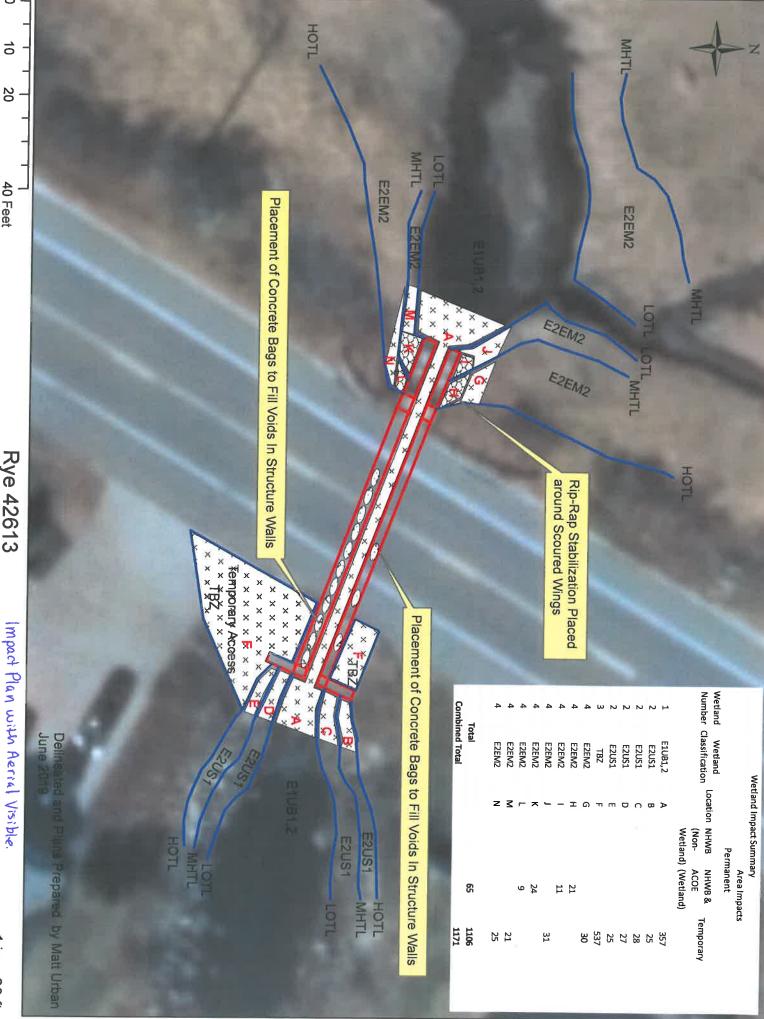
### Rye, 42613

### **Construction Sequence Narrative**

- 1) Identified project boundaries to set limits for access and temporary impacts (foot traffic to facilitate work.) Installed BMP's/perimeter controls.
- 2) Work needed to be ?...
- 3) Maintenance crews prepped the structure for placement of concrete bags by removing loose debris from the structure walls.
- 4) Concrete bags were pre-wetted and then manually stacked by hand uniformly one layer at a time into the structural voids.
- 5) Placed stone rip-rap from the road (temporarily shifting traffic onto an alternating one way pattern) to fill the scoured sections behind the wing walls.)
- 6) Removed Perimeter controls.

<sup>\*</sup>Note, no in water BMP's were necessary because all work was able to be completed during low tides so as not to cause any discharge or plumes.





Rye 42613

40 Feet

Impact Plan with Aerial Visible.